

Fig 1. Event Logging Mechanism (100)

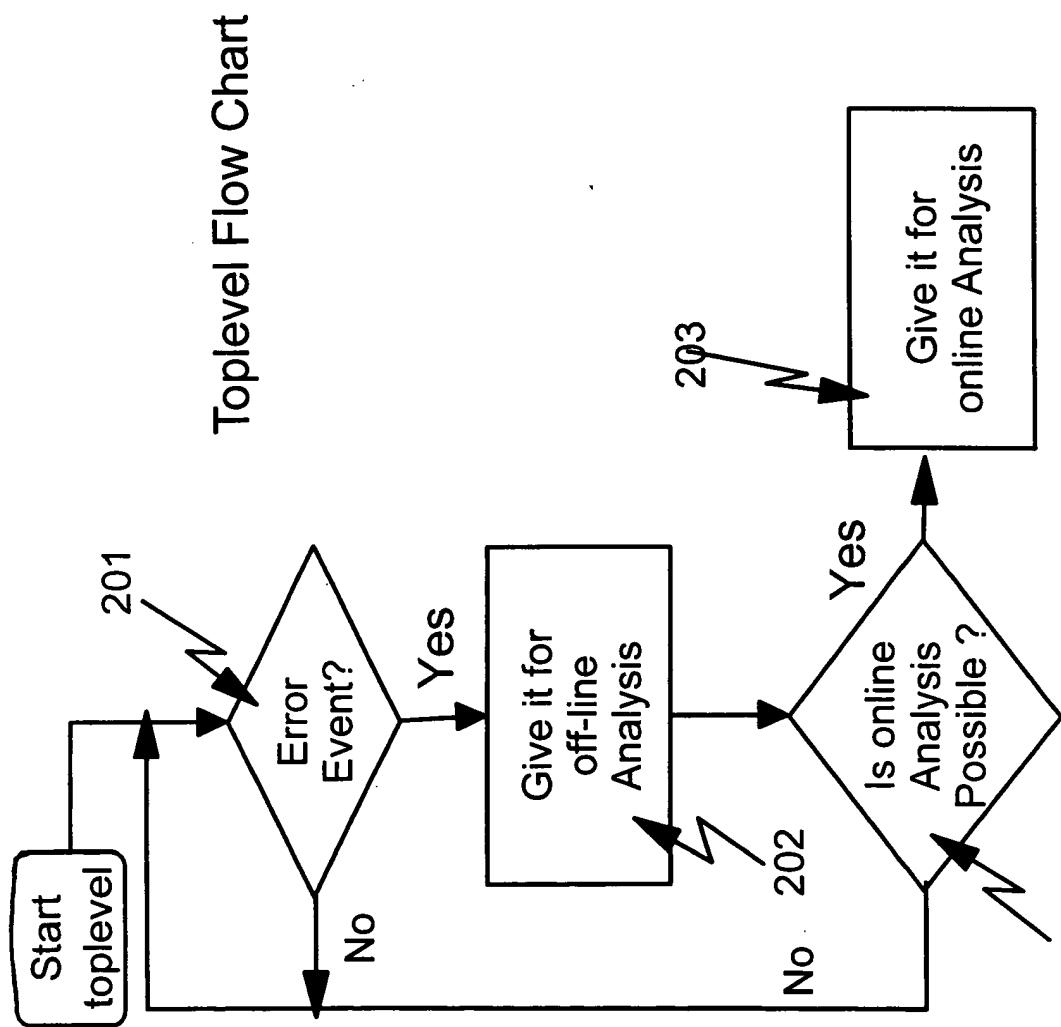


Figure 2

205

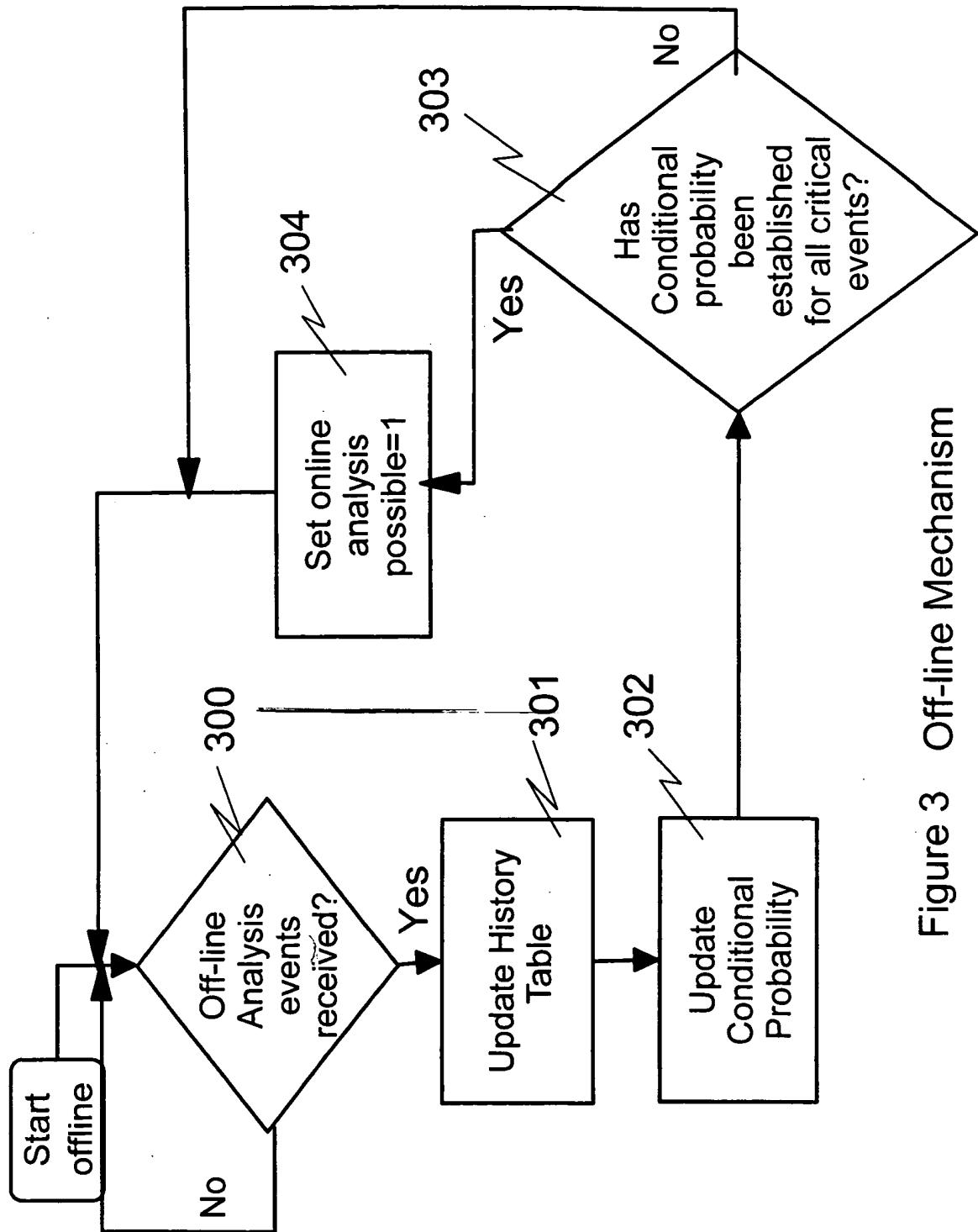


Figure 3 Off-line Mechanism

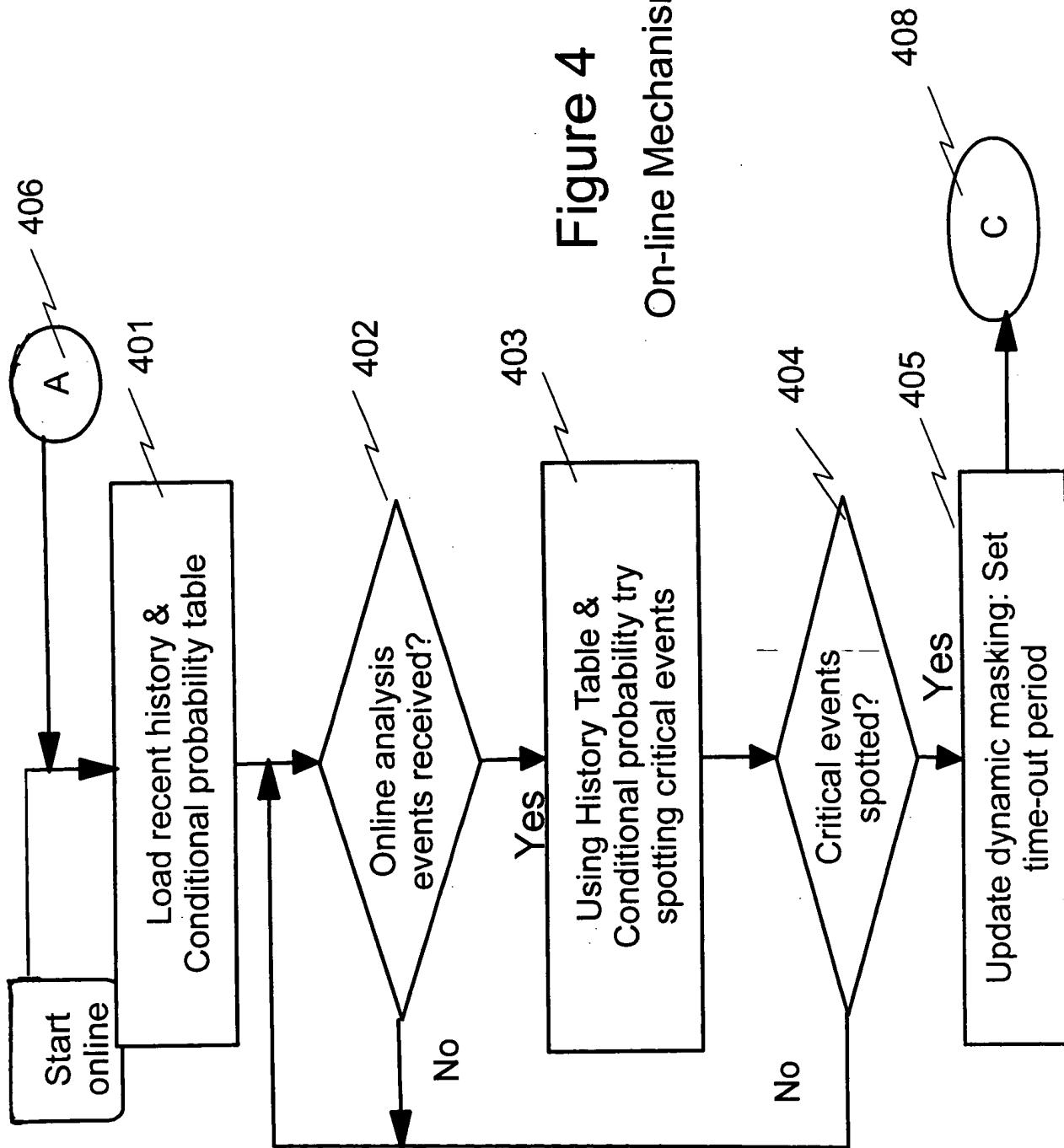
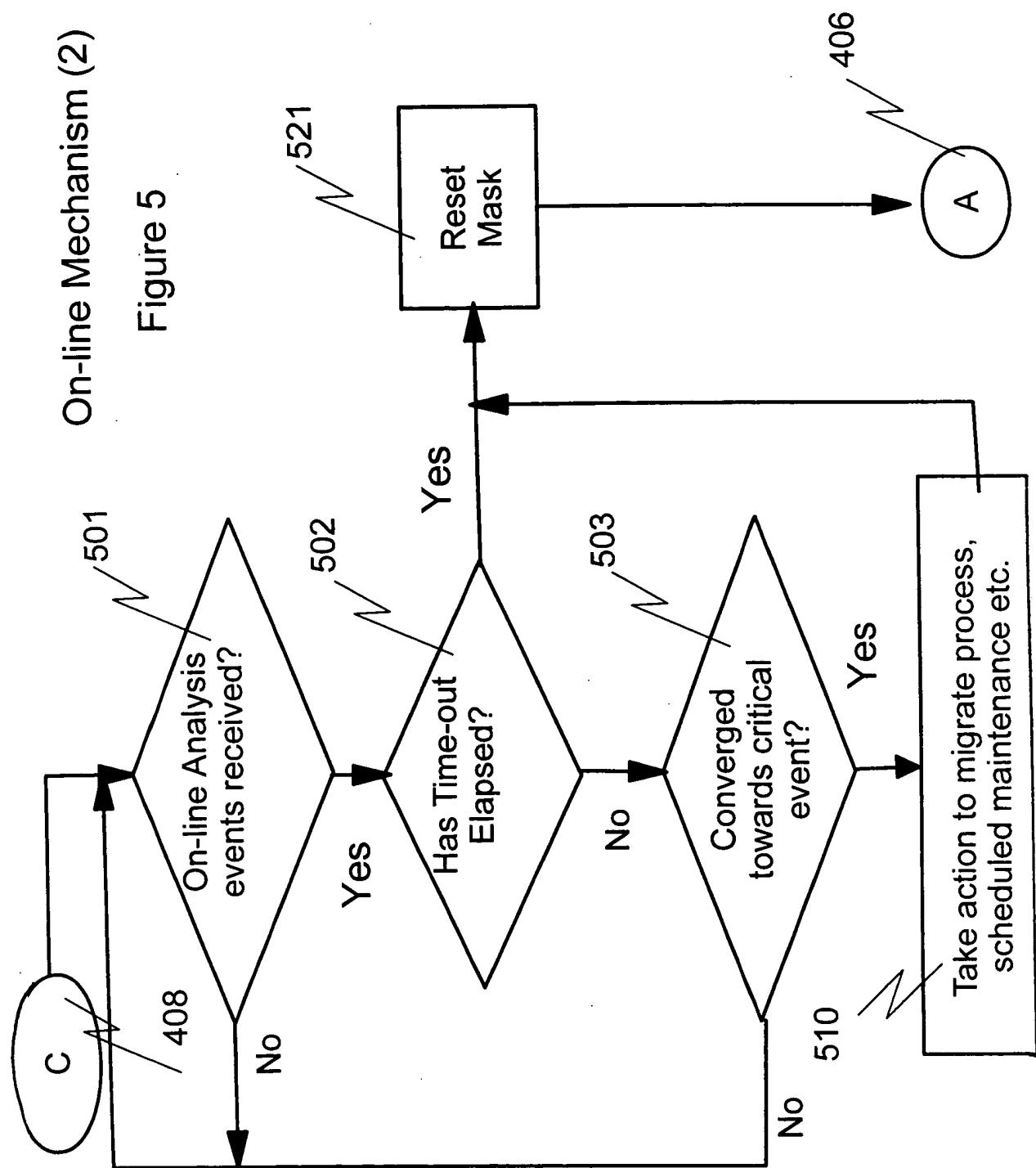


Figure 4

On-line Mechanism (1)

On-line Mechanism (2)

Figure 5



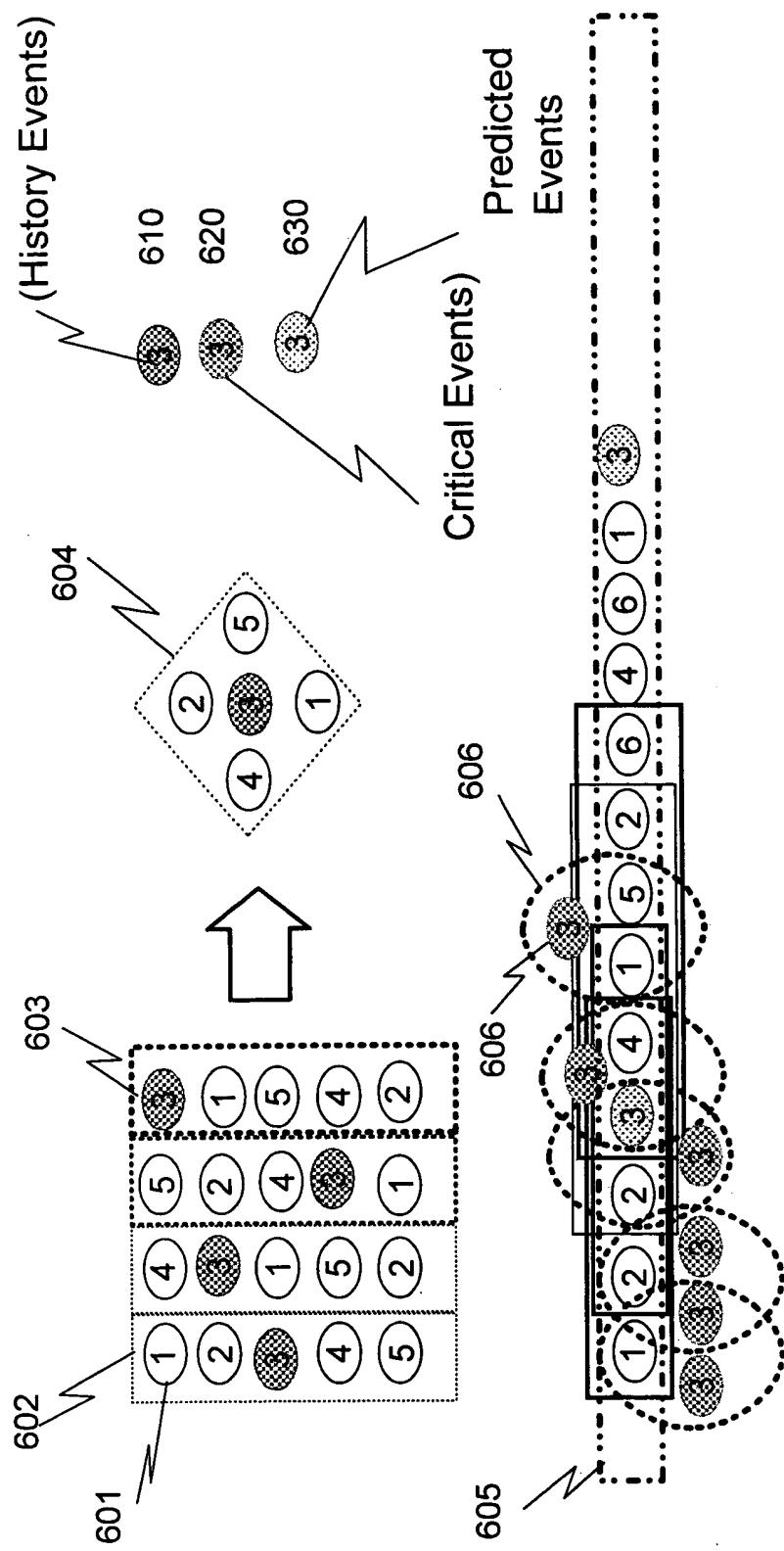


Figure 6      Dynamic Grouping Mechanism

Critical Event	Event Type/d	Associated Non-critical Events	Conditional Probabilities		Joint probabilities	
			1	2	3	4
3	Severity (5)		1	2	4	5
6	Severity (4)		1	3	7	9
			1	1	1	1
Cr		NCr		Rn		JPn

701            702            703            704            705

Figure 7. History table with probability (700)

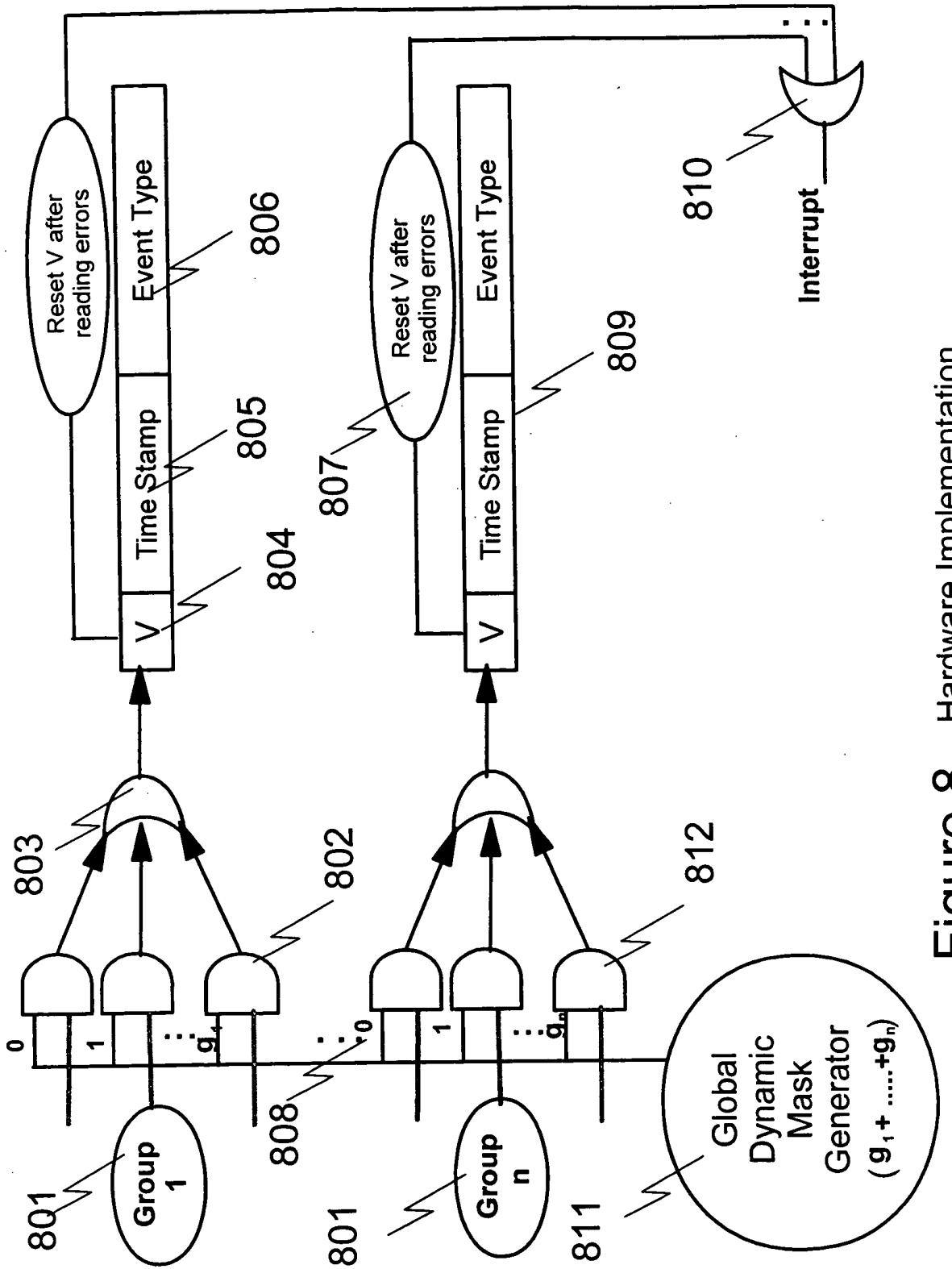
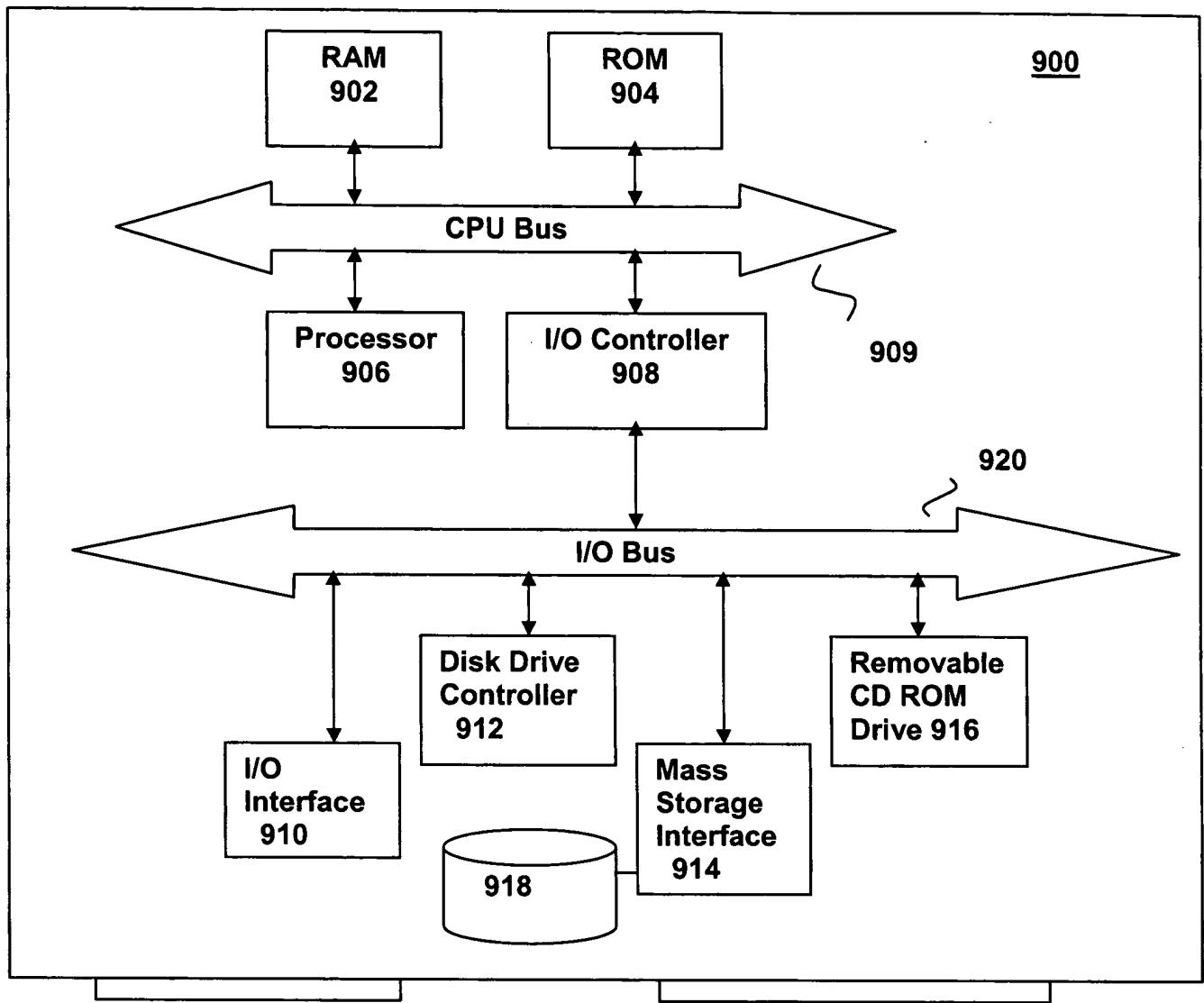


Figure 8 Hardware Implementation

YOR920030348US1



**FIG. 9**